



DARPA Grand Challenge 2005

Video Demonstration Guidelines

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Defense Advanced Research Projects Agency

3701 North Fairfax Drive
Arlington, VA 22203-1714

DARPA Grand Challenge 2005

Video Demonstration

Overview

The video demonstration is the primary means for determining which teams will advance to the next qualification step—the site visit. DARPA will review the video to assess the state of preparation and level of integration of the Challenge vehicle. It is expected (but not required) that the applicant have a vehicle capable of moving under its own power by the March 11, 2005 deadline for submission of the video demonstration.

Teams that fail to submit a video will be ineligible for further participation in DARPA Grand Challenge 2005.

It is the sole responsibility of each team to ensure that activities undertaken in preparation for the Grand Challenge, including preparation of the video demonstration, are conducted safely and legally.

All submissions become the property of DARPA and will not be returned.

Video Content

- The total time limit for the video is 5 minutes.
- The video should show the Challenge vehicle entered in the Grand Challenge. A surrogate vehicle may be used for representational purposes, if necessary.
- The video must provide a brief, but thorough, view of the vehicle to show the integration of any sensors, actuators, and processors that are installed on the vehicle.
- The team may choose to show the vehicle starting from a stopped position, executing a series of turning movements, and returning to a complete stop. During movement, the vehicle may be operated under teleoperation or autonomous navigation.
- Teams should use the audio track to explain the significance of each segment of the video. Alternatively, a written narrative describing the action in the video is acceptable.

Video Format

DARPA will accept videos in the form of a digital file or files (.mpeg or .avi) on a CD that can be read by a computer compact disc drive. Optionally, a VHS videotape is acceptable (NTSC only).

Video Evaluation

DARPA will evaluate each team's video demonstration on the basis of:

- Conformance with the rules
- Possession of a vehicle
- Possession of sensor equipment
- Possession of navigation equipment
- Capability of the vehicle to complete the Grand Challenge route
- Demonstration of navigation and sensor capabilities necessary for completion of the Grand Challenge